Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	388	(548/241).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/12/13 09:38
S2	10	(("20050027126") or ("20040138471") or ("20040049053") or ("6936720") or ("20030144527") or ("6841683") or ("6677458")).PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/12/13 09:39
S 3	2	("4172896").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/12/13 09:39
S5	1	("53077057").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/12/13 09:39
S6	2	(("54163823") or ("54163570")).PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/12/13 09:39

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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     2
                 "Ask CAS" for self-help around the clock
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                 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03
                 MATHDI removed from STN
NEWS 5 OCT 04
                CA/CAplus-Canadian Intellectual Property Office (CIPO) added
                 to core patent offices
NEWS 6
        OCT 13
                 New CAS Information Use Policies Effective October 17, 2005
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        OCT 17
                 STN(R) AnaVist(TM), Version 1.01, allows the export/download
                 of CAplus documents for use in third-party analysis and
                 visualization tools
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        OCT 27
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        OCT 27
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NEWS 10 OCT 27
                 EPFULL enhanced with additional content
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                CA/CAplus - Expanded coverage of German academic research
NEWS 12 NOV 30
                 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental
                 spectral property data
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                CASREACT(R) - Over 10 million reactions available
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             DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
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SINCE FILE TOTAL ENTRY SESSION 0.84 0.84

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STRUCTURE FILE UPDATES: 12 DEC 2005 HIGHEST RN 869770-56-9 DICTIONARY FILE UPDATES: 12 DEC 2005 HIGHEST RN 869770-56-9

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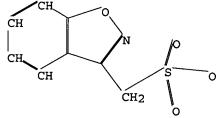
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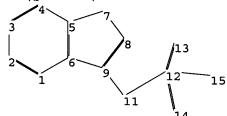
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http://www.cas.org/ONLINE/UG/reqprops.html

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chain nodes : 11 12 13 14 15 ring nodes : 1 2 3 4 5 6 7 chain bonds : 9-11 11-12 12-13 12-14 12-15 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 exact/norm bonds : 8-9 12-13 12-14 12-15 exact bonds : 5-7 6-9 7-8 9-11 11-12 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 isolated ring systems : containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 12:51:02 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -7 TO ITERATE

100.0% PROCESSED 7 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

> BATCH **COMPLETE**

PROJECTED ITERATIONS: 7 TO 298 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 12:51:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -143 TO ITERATE

100.0% PROCESSED 143 ITERATIONS 12 ANSWERS

SEARCH TIME: 00.00.01

L3 12 SEA SSS FUL L1

=> s 13 and caplus/lc

49159175 CAPLUS/LC

L4 12 L3 AND CAPLUS/LC

=> fil caplus

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ENTRY SESSION

FULL ESTIMATED COST 165.93 166.77

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=> s 14

L5 14 L4

=> d ibib abs hitstr 1-14

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L5 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2005:1050940 CAPLUS DOCUMENT NUMBER: 143:226350 Che-bat Reserved.
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One-pot process for the preparation of 1,2-benzisoxarole-3-methanesulfonamide from 4-bydroxycoumarin Ueno, Yoshikazu: Ishikura, Tsutomu

INVENTOR (S): PATENT ASSIGNEE (S): SOURCE:

Japan U.S. Pat. Appl. Publ., 5 pp. CODEN: USXXCO

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

	PATENT	NO.			KIN	D	DATE			APPL	ICAT	ION .	NO.		D.	ATE	
						-									-		
	US 200	52157	96		A1		2005	0929		US 2	005-	8880	2		2	0050	325
	WO 200	50928	69		A1		2005	1006		WO 2	005-	JP53	49		2	0050	324
	W:	AE,	AG,	AL,	AM,	AT.	AU.	AZ,	BA.	88.	BG,	BR,	BW,	BY,	BZ.	CA,	CH.
		CN,	co,	CR,	cu,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GH,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA.	NI,
		NO,	NZ,	OH,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,
		SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	us,	UZ,	vc,	VN,	YU,	ZA,	ZM,
ZW																	
	RW	: BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NΑ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	ΒĒ,	BG,	CH,	CY,	CZ,	DE,	DK,
		EΕ,	ES,	FI,	FR,	GB,	GR,	ΗU,	IE,	IS,	IT,	LT,	IJ,	MC,	NL,	PL,	PT,
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,
		MR,	NE,	SN,	TD,	TG											
PRIOR	ITY AP	PLN.	INFO	. :						US 2	004-	5560	73P		P 2	0040	325

1,2-Benzisoxazole-3-methanesulfonamide was prepared by reaction of 4-hydroxycoumarin and NH2OH (salt) in H2O to give a mixture, AB acidification

of the mixture and addition of ClCH2CH2Cl, removal of the aqueous laver to give a

mixture containing 1,2-benzisoxazole-3-acetic acid and ClCH2CH2Cl. further

removal of H2O by distillation, addition of ClSO3H, addition of base to give an alkali metal salt of 1,2-benzisoxazole-3-methanesulfonic acid, addition of

POC13 to give 1,2-benzisoxazole-3-methanesulfonyl chloride, and addition of NH3. 342623-49-8DP, 1,2-Benzisoxazole-3-methanesulfonic acid, alkali

342633-49-8DP, 1,2-Benzisoxazole-3-methanesulfonic acid, aixali metal salt
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PRDF (Preparation); RACT (Reactant or reagent) (preparation of benzisoxazolemethanesulfonamide from hydroxycoumarin) 34263-3-9-8 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:429406 CAPLUS
DOCUMENT NUMBER: 142:482033
TITLE: A process for the manufacture of zonisamide, useful

anticonvulsant agent
Jaweed Mukarram, Siddiqui Mohammed; Merwade, Aravind
Yehanathae; Shukla, Jagdish Dattopant; Saiyad, Anis
Mushtaqeali
Mushtaqeali
Wockhardt Limited, India
PCT Int. Appl., 15 pp.
CODEN: PIXXD2
Patent
English
1 INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ENT				KIN	Ď	DATE			APPL	I CAT	ION	NO.		D.	ATE	
						-									-		
WO	2005	0448	80		Al		2005	0519	,	WO 2	003-	IB50	52		2	0031	111
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		co,	CR,	CU,	cz,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	Hυ,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NI,	NO,	NZ,	OM,
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	ΰĠ,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
	RW:	BW,	GH,	GH,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	AT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
		ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	G₩,	ML,	MR,	NE,	SN,	TD,

PRIORITY APPLN. INFO.: WO 2003-IB5052 20031111

OTHER SOURCE(S): CASREACT 142:482033

The invention relates to an improved process for the preparation of

samute
(II), a well known anticonvulsant. Other aspects of this invention are
isolation of a key intermediate, viz., isolation of crystalline sodium

associated with 1,2-benzisoxazole-3-methane sodium sulfonate (BOS-Na:NaCl)

[BOS-Na:NaCl).

Zonisamide (I, 991 HPLC purity) was prepared via ring
opening/cyclization of

4-hydroxycoumarin in the presence of NN2OH (step 1), sulfonation of the
obtained 1,2-benzisoxazole-3-acetic acid, and chlorination/amidation of
the obtained sodium 1,2-benzisoxazole-3-methanesulfonate associated with
NACT NaC1

(yield of step 1 was 95-981). The anal. characteristics like IR and XRD data of BOS-NaCl were also reported to confirm its nature. 851961-40-51

RL: IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); PREP

L5 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

ANSWER 2 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) (Preparation): RACT (Reactant or reagent) (process for the manuf. of zonisamide useful as anticonvulsant agent) 851961-40-5 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt, compd. with sodium chloride (NaCl) (1:1) (9CI) (CA INDEX NAME)

1

CRN 342623-49-8 CMF C8 H7 N O4 S

2

CRN 7647-14-5 CMF C1 Na

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L5 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2005:300420 CAPLUS DOCUMENT NUMBER: 142:373849
TITLE: An improved 142:3/3849
An improved process for preparation of isoxazole and oxathiane derivatives, useful as intermediates for synthesis of zonisamide
Veera Reddy, Arya: Rajendiran, Chinnapillai;

INVENTOR(S): Vaishali,

Nadkarni; Jasti, Venkat Suven Life Sciences Limited, India PCT Int. Appl., 26 pp. CODEN: PIXXD2 Patent Facilib PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE WO 2005030738 20050407 Al WO 2003-IN325 20030929 2005030738
W: AE, AG, AL,
CO, CR, CU,
GM, HR, HU,
LS, LT, LU,
PG, PH, PL,
TR, TT, TZ,
RW: GH, GM, KE,
KG, KZ, MD,
FI, FR, GB,
BF, BJ, CF, A1 20050407 W0 2003-IN325 20030929 AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CM, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, LV, MA, MD, MG, MK, MM, MM, MK, MZ, NI, NO, NZ, OM, FT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TM, UA, UG, US, UZ, VC, VM, YU, ZA, ZM, ZW
LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, CR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, SR, SC, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG
CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG
WO 2003-IN325 PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

CASREACT 142:373849; MARPAT 142:373849

AB The invention relates to an improved process for preparation of benzisoxazole

LS ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:606452 CAPLUS
DOCUMENT NUMBER: 141:140420
TITLE: A process for the preparation of benzo[d]isoxazol-3-vl-

INVENTOR(S):

methanesulfonic acid
Razzetti, Gabriele: Mantegazza, Simone: Castaldi,
Graziano: Allegrini, Pietro: Lucchini, Vittorio;
Bologna, Alberto
Dinamite Dipharma S.P.A., Italy
PCT Int. Appl., 22 pp.
CODEN: PIXXD2
Patent
English 1
1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

TG

PATENT NO. KIND APPLICATION NO. DATE 9 20031224 BY, BZ, CA, CH, ES, FI, GB, GD, KP, KR, KZ, LC, MX, MZ, NI, NO, SK, SI, SY, TJ, ZA, ZM, ZW ZM, ZW, ZW, ZW, ZM, ZW, EE, RO, SE, SI, SK, MR, NE, SN, TD, W0 2004063173
W: AE, AG, AL,
CN, CO, CR,
GE, GH, GM,
LK, LR, LS,
NZ, OM, PG,
TM, TN, TR,
RW: BW, GH, GH,
BY, KG, KZ,
ES, FI, FR,
TR, BF, BJ, A1 AM, AT, CU, CZ, HR, HU, LT, LU, PH, PL, TT, TZ, KE, LS, MD, RU, GB, GR, CF, CG, 20040729 , AU, AZ, , DE, DK, , ID, IL, , LV, MA, , PT, RO, , UA, UG, , MM, MZ, , TJ, TM, , HU, IE, , CI, CM, CA 2512791 AA 20040729 CA 2003-2512791 20031224
EP 1581508 A1 20051005 EP 2003-795972 20031224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.: A 20030110

IT 2003-MI1383 WO 2003-EP14919 20031224

OTHER SOURCE(S): AB The title c preparation

aration
of anticonvulsant zonisamide, is prepared by reaction of
1,2-benzoxathin-4(3H)-one 2,2-dioxide oxime (II) with organic base or

or alkaline earth hydroxide. Thus, reaction of II with aq NaOH at room temperature

for 3 h gave 70% sodium salt of I. 726188-85-8P IT

RL: IMF (Industrial manufacture): SPN (Synthetic preparation): PREP (Preparation)

(preparation of 1,2-benzisoxazole-3-methanesulfonic acid or its salt

intermediate for zonisamide)
7.6188-85-8 CAPIUS
1.6188-85-8 CAPIUS
1.6188-85-8 CAPIUS
1.6288-85-8 CAPIUS
1.6288-85-86 CAPIUS
1

ANSWER 3 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) and oxathiane derivs., e.g. I (wherein: R1, R2, R3, and R4 are independently selected from H, alkyl, chloro, bromo, NO2, or NNe2, etc.; R5 is NGNH), useful for the prepn. of romisamide. The compds. of the formula I were prepd. by intramol. cyclocondensation of the compd. of the formula II and subsequent imination of the obtained ketone I (R5 = 0) by NH2OH. For instance, III [I, R1 = R2 = R3 = R4 = H, R5 = N(OH)) was prepd. via cyclocondensation of I (R1 = R2 = R3 = R4 = H, R5 = O) by NH2OH=HCI (yields: cyclization - 761, imination - 931). Benzisoxazole deriv. IV-Na was prepd. via ring-opening/cyclization of III with a purity of 93.268. 73101-64-IP

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(improved process for preparation of isoxazole and oxathiane derivs.

for the preparation of zonisamide)
73101-64-1 CAPLUS

1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX

● Na

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CH 2

CRN 121-44-8 CMF C6 H15 N

73101-64-1P 726188-84-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (Preparation of 1,2-benzisoxazole-3-methanesulfonic acid or its salt

intermediate for zonisamide)
73101-64-1 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX NAME)

726188-84-7 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, lithium salt (9CI) (CA INDEX NAME)

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

● Li

LS ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) an intermediate for prepn. of the antiepileptic agent zonisamide (I; R = NH2) (III). II is prepd. via chlorination of the acid I (R = OH), or its salts or esters, using thionyl chloride (SOC12). III is prepd. by amidation of II using NH3 in either aq., anhyd., or masked forms. More specifically, the invention provides a process of prepg. III, comprising the steps of: (1) chlorinating I (R = OH) or its salts or esters with SOC12 in an org. solvent and/or in the presence of a catalyst to form III, and (2) amidating II in the presence of ammonia, the latter selected from the group consisting of (1) aq. ammonia in a biphasic system, (ii) masked ammonia, and (iii) dry ammonia, to form III. Use of SOC12 to form the acid chloride avoids the use of POC13, which is substantially more hazardous in the workplace. For instance, 4 equiv SOC12 was added dropwise over 3 h to a mixt. of 1 equiv I (R = OH) Na salt in PhMe contg. O.1 equiv DMF catalyst at 50-60°, followed by stirring to 50° for 4-5 h. Excess SOC12 was removed by flowing N2, fresh PhMe was added, and inorg, salts were filtered to give a soln. of II in PhMe. This soln. was cooled to 10-15° and anhyd. NH3(g) was bubbled through the mixt. at that temp. until the reaction was complete. by HPLC. Filtration of inorg salts, trituration with H2O at room temp., filtration, and washing with 93% EtOH gave crude III in 91.25% yield, contg. only 2.5% I.NH3 (R = OH) (IV) as an impurity. Recrystn. from III in 10.64-1, 1,2-Benzisoxazole-3-methanesulfonic acid sodium salt 81534-20-3, Ammonium 1,2-benzisoxazole-3-methanesulfonic acid sodium salt 81534-20-3. Ammonium 1,2-benzisoxazole-3-methanesulfonic acid sodium salt 81536-20-3. Ammonium 1,2-benzisoxazole-3-methanesulfonic acid sodium salt 9301-64-1 CAPLUS
CN 1,2-Benzisoxazole-3-methanesulfonic acid sodium salt 9301-64-1 CAPLUS

● Na

81534-20-5 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, ammonium salt (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:696874 CAPLUS
DOCUMENT NUMBER: 139:230763
TITLE: Method for preparing 1,2-benz

139:230763
Method for preparing 1,2-benzisoxazole-3methanesulfonyl chloride using thionyl chloride, and
its amidation to form zonisamide
Mendelovici, Marioara; Gershon, Neomi; Nidam, Tamar;
Pilarski, Gideon; Sterinbaum, Greta
Teva Pharmaceutical Industries Ltd., Israel; Teva
Pharmaceuticals USA, Inc.
PCT Int. Appl., 21 pp.
CODEN: PIXXD2
Patent INVENTOR (S): PATENT ASSIGNEE (S):

SOURCE:

DOCUMENT TYPE: ELANGUAGE: ELANGUAGE: ELANGUAGE: PAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION: Patent English

		APPLICATION NO.	DATE
		WO 2003-US5690	20030224
WO 2003072552	C1 20040923		
W: AE, AG,	AL, AM, AT, AU, AZ,	BA, BB, BG, BR, BY,	BZ, CA, CH, CN,
CO, CR,	CU, CZ, DE, DK, DM,	DZ, EC, EE, ES, FI,	GB, GD, GE, GH,
GM, HR,	HU, ID, IL, IN, IS,	JP, KE, KG, KP, KR,	KZ, LC, LK, LR,
LS, LT,	LU, LV, MA, MD, MG,	MK, MN, MW, MX, MZ,	NO, NZ, OM, PH,
PL, PT,	RO, RU, SC, SD, SE,	SG, SK, SL, TJ, TM,	TN, TR, TT, TZ,
UA, UG,	US, UŽ, VC, VN, YU,	ZA, ZM, ZW	
RW: GH, GM,	KE, LS, MW, MŽ, SD,	SL, SZ, TZ, UG, ZM,	ZW, AM, AZ, BY,
KG, KZ, I	MD, RU, TJ, TM, AT,	BE, BG, CH, CY, CZ,	DE, DK, EE, ES,
		LU, MC, NL, PT, SE,	
		GQ, GW, ML, MR, NE,	
CA 2475598	AA 20030904	CA 2003-2475598	20030224
US 2004014983	A1 20040122	US 2003-373554	20030224
	B2 20050830		
EP 1472236	A1 20041103	EP 2003-716172	20030224
R: AT, BE,	CH, DE, DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,
IE, SI,	LT, LV, FI, RO, MK,	CY, AL, TR, BG, CZ,	EE, HU, SK
JP 2005526049	T2 20050902	JP 2003-571258	20030224
NO 2004003972	A 20040922	NO 2004-3972	20040922
PRIORITY APPLN. INFO.	:	US 2002-358916P	P 20020222

WO 2003-US5690

W 20030224

OTHER SOURCE(S): CASREACT 139:230763; MARPAT 139:230763

The invention relates to a process of preparing 1,2-benzisoxazole-3-methanesulfonic acid chloride (I; R = Cl) (II). This compound is useful

ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

● инз

342623-49-8 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2003:590879 CAPLUS DOCUMENT NUMBER: 139:154994 NOVEL Sulfonation marked 4 Novel sulfonation method for zonisamide intermediate in zonisamide synthesis and their novel crystal forms Nidam, Tamar; Mendelovici, Marioara; Schwartz,

INVENTOR(S): Edward;

PATENT ASSIGNEE (S): SOURCE:

Wizel, Shlomit Israel U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No. 233,190. CODEN: USXXCO Patent

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English 2

PATENT	INFOR	MATI	ON:														
	TENT						DATE				LICAT					ATE	
											2002-					0021	
	2003																
										US :	2002-	2331	90		2	0020	82 9
	6841																
WO											2002-						
	w:	ΑE,	AG,	AL,	AM,	ΑŤ,	ΑU,	AZ,	BA,	BB,	, BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		co,	CR,	Cυ,	CŻ,	DE,	DK,	DM,	DZ,	EC.	, EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GH,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KE	, KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK.	MN	, MW.	MX.	MZ.	NO.	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK	. SL.	TJ.	TM.	TN.	TR.	TT.	TZ,
		UA.	UG.	US.	UZ.	VC.	VN.	YU.	ZA.	ZM	ZW			-			-
	RW:										, TZ,	UG.	ZM.	ZW.	AM.	AZ.	RY.
											CH.						
											PT.						
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110	2004										2003-					0020	015
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											2004-					0040	
PRIORIT	Y APP	LN.	INFO	. :						US :	2001-	3161	09P		P 2	0010	830
										US :	2001-	3444	39P	- 1	P 2	0011	024
										us :	2002-	2331	90	1	A2 2	0020	829

The present invention relates to a novel sulfonation of an intermediate

zonisamide. The sulfonation processes using chlorosulfonic acid as well as acetic anhydride and sulfuric acid in an organic solvent are disclosed.

Crystalline forms of benzisoxazole methanesulfonic acid (BOS-H) and its

(BOS-Na, BOS-Ca, and BOS-Ba) and their novel preparation processes are

(BUS-NA, BUS-LA, and Bus-La, and disclosed, and disclosed, 73101-64-IP 342623-49-8P, 12-Benzisoxazole-3-methanesulfonic acid 457635-27-7P 457635-28-8P 501019-17-6P 501019-18-7P 569638-21-7P

569638-22-8P

559538-22-8P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
 (benzisoxazole acetic acid sulfonation and intermediates crystal forms in zonisamide synthesis)
33101-64-1 CAPLUS

1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 501019-17-6 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt, monohydrate (9CI) (CA INDEX NAME)

● Na

● н20

501019-18-7 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, monohydrate (9CI) (CA INDEX NAME)

сн₂- sо₃н

● H₂O

569638-21-7 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, barium salt, dihydrate (9CI)
(CA INDEX NAME)

●1/2 Ba

● н20

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN NAME) (Continued)

342623-49-8 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)

457635-27-7 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, calcium salt (9CI) (CA INDEX NAME)

●1/2 Ca

457635-28-8 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, barium salt {9CI} (CA INDEX NAME)

●1/2 Ba

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

569638-22-8 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, calcium salt, tetrahydrate (CA INDEX NAME)

●1/2 Ca

●2 H₂O

L5 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:202630 CAPLUS
DOCUMENT NUMBER: 138:221579
Froceas for the preparation of 1,2-benzisoxazole-3-methanesulfonic acid and its salts, intermediates in the synthesis of Zonisamide
INVENTOR(S): Nidam, Tamar; Mendelovici, Marioara; Schwartz,

Wizel, Shlomit
Teva Pharmaceutical Industries Ltd., Israel; Teva
Pharmaceuticals USA, Inc.
PCT Int. Appl., 62 pp.
CODEN: PIXXD2
Patent PATENT ASSIGNEE (5):

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

SOURCE:

PATENT																
	WO 2003020708							WO 2002+11927593								
	AE,															
						DK,										
						IN.										
						MD,										
						SE,										
						VN,										
	RU.			υ.,		• • • •	,	ш,	,	,	~.,	ль,	,	,	,	ιω,
pw.	GH,			T.G	ww	M7	sn.	61.	97	TZ	IIG	2 M	7W	ΔТ	BF	BG.
N=.						EE,										
						BJ,										
	NE.					ы,	٠.,	СО,	C.,	C.,	٠,	G14,	υę,	J.,	,	ı,
CA 2458						2002	0212		CR 21	002-	2450	005		,	0020	220
EP 1430																
	AT,															
Ν.						RO,										F1,
JP 2005																
PRIORITY APP	LN.	NFO.	. :						US 21	001-	3161	95		. 2	0010	530
									US 21	001-	3444.	372		- 2	0011	J2 4
								,	WO 20	002-1	1077	503			0020	220
										002-	0327	333			0020	323

OTHER SOURCE(S): CASREACT 138:221579

AB A process for the preparation of 1,2-benzisoxazole-3-methanesulfonic acid $\{1\}$ by sulfonation of 1,2-benzisoxazole-3-acetic acid with chlorosulfonic acid

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●1/2 Ca

457635-28-8 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, barium salt (9CI) (CA INDEX NAME)

●1/2 Ba

501019-17-6 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt, monohydrate (9CI) (CA INDEX NAME)

сн₂- sо₃н

● Na

● H₂O

501019-18-7 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, monohydrate (9CI) (CA INDEX NAME)

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) or acyl aulfates in an org. solvent and optional conversion to its salts is disclosed. I has com. importance as a key intermediate in the prepn. of Zonisamide. For example, a soln. of 1,2-benzisoxarole-7-acetic acid (20 gm), 984 H2SO4 (22 gm), and Ac20 (23 gm) in Acc0t (80 mL) was heated at reflux for 4 h and the cooled reaction mixt. treated with aq. 101 aq. NAOH (120 mL) to give 1-Na (20.33 gm) in 1001 purity. Advantages of the present invention are: (1) the prepn. of I without the use of Kane, improving the environmental safety of the reaction; and (2) the increased selectivity for prepn. of the monosulfonated over the bisulfonated benzisoxazole. Cryst. forms of 1,2-benzisoxazole-3-methanesulfonic acid (BOS-H) and its salts (BOS-Na, BOS-Ca, and BOS-Ba) were also characterized.

73101-64-19, 1,2-Benzisoxazole-3-methanesulfonic acid sodium salt 342823-49-89, 1,2-Benzisoxazole-3-methanesulfonic acid 457635-27-79, 1,2-Benzisoxazole-3-methanesulfonic acid darium salt 351019-17-69 501019-18-79

RL: INF (Industrial manufacture): PRP (Properties): RCT (Reactant): PREP (Preparation): RACT (Reactant or reagent) (target intermediates) repeatation of benzisoxazolemethanesulfonic dand salts, intermediates in the synthesis of Zonisamide, by sulfonation of

ΙŦ

(target intermediate; preparation of benzisoxazolemethanesulfonic acid and salts, intermediates in the synthesis of Zonisamide, by sulfonation of benzisoxazoleacetic acid)

RN 73101-64-1 CAPLUS
CN 1, 2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX NAME)

● Na

342623-49-8 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)

457635-27-7 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, calcium salt (9CI) (CA INDEX NAME)

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

● н20

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN SSION NUMBER: 2002:835617 CAPLUS MENT NUMBER: 139:36455

ACCESSION NUMBER:

DOCUMENT NUMBER:

139:36455
Product class 10: 1,2-benzisoxazoles and related compounds
Smalley, R. K.
Germany
Science of Synthesis (2002), 11, 289-335
CODEN: SSCYJ9
Georg Thieme Verlag
Journal; General Review
English TITLE:

AUTHOR (S):

CORPORATE SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

A review presents various methods of ring-closure reaction and

tituent
modification for the synthesis of 1,2-benzisoxazoles and related compds.
342623-49-8P, 1,2-Benzisoxazole-3-methanesulfonic acid
RL: SPN (Synthetic preparation)
(review of preparation of benzisoxazoles via ring-closure reactions,

transformations, aromatization and substituent modification) 342623-49-8 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)

сн₂— sо₃н

REFERENCE COUNT:

THERE ARE 223 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE 223

ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) prepn. of Zonisamide. For example, a soln. of 4-hydroxycoumarin (100 g), hydroxylamine hydrochloride (150 g) and diethylamine (160 g) in MeOH (500 mL) was heated at reflux for 1 h. The reaction mixt. was evapd. to dryness and the solid dissolved in aq. NaHCO3 and extd. with ether.

acidification of the aq. phase, the product was isolated by filtration, washed with water and dried to provide I (99.02 g) in 93 % wt./wt. yield. Avantages of the present invention are: (1) the prep. of I without the

of metallic sodium; and (2) the minimization of reaction side-products, e.g., oxime. The process is thus substantially less hazardous than previous methods. The invention also claims the prep. I or salts of

are converted to 1,2-benzisoxazole-3-methanesulfonamide, i.e.,

are converted to 1,2-Denzisusazoia-3 mmo.mmo.zoia-3 methanesulfonic acid sodium salt 312623-49-89, 1,2-Benzisoxazola-3-methanesulfonic acid sodium salt 312623-49-89, 1,2-Benzisoxazola-3-methanesulfonic acid 457635-27-79 457635-28-89
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(product; process for preparation of 1,2-Denzisoxazola-3-acetic acid, an

intermediate in synthesis of zonisamide)
73101-64-1 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX NAME)

сн₂-- sозн

• Na

342623-49-8 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid (9CI) (CA INDEX NAME)

457635-27-7 CAPLUS 1,2-Benzisoxazole-3-methanesulfonic acid, calcium salt (9CI) (CA INDEX NAME)

L5 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2002:695963 CAPLUS

DOCUMENT NUMBER: 137:216942

Process for the preparation of 1,2-benzisoxazole-3-acetic acid, an intermediate in the synthesis of zonisamide TITLE:

zonisamide
Mendelovici, Mariorara; Nidam, Tamar
Teva Pharmaceutical Industries Ltd., Israel; Teva
Pharmaceuticals USA, Inc.
PCT Int. Appl., 14 pp.
CODEN: PIXXD2
Patent INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2002070495 A1 20020912 WO 2002-US6419 20020304
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, LS, LT, LU, LV, MA, MD, MG, MK, MN, MK, MK, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CT, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NS, NN, TD, TG
CA 2440030 AA 20021912 CA 2002-2440030 20020304
US 2002183525 A1 20021205 US 2002-90710 20020304
US 2002183525 A1 20040102 EP 2002-717527 20020304
EP 1373229 A1 20040102 EP 2002-717527 20020304
EP 1373229 A1 20040102 EP 2002-717527 20020304
ER AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, IT, LV, FI, RO, MK, CY, AL, TR
US 2004049053 A1 20040311 US 2003-661109 20030302
ENTITY APPLM. INFO: WO 2002070495 A1 20020912 WO 2002-US6419 20020304 EP 2002-717527 20020304
GB, GR, IT, LI, LU, NL, SE, MC, PT,
CY, AL, TR
US 2003-661109 20030912
US 2001-273172P P 20010302 PRIORITY APPLN. INFO.: US 2001-294847P P 20010531 US 2002-90710 A3 20020304

WO 2002-US6419 w 20020304

OTHER SOURCE(S):

CASREACT 137:216942

A process for the prepareation of 1,2-benzisoxazole-3-acetic acid (I) 4-hydroxycoumarin and hydroxylamine.HCl in the presence of a base is disclosed. Compound I has com. importance as a key intermediate in

ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

457635-28-8 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, barium salt (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1982:181246 CAPLUS 96:181246 STUDIES ON 3-substituted 1 2-b-

96:181246
Studies on 3-substituted 1,2-benzisoxazole derivatives. VII. Catalytic reduction of 3-sulfamoylmethyl-1,2-benzisoxazole and reactions of the resulting products
Uno, Hitoshir Kurokawa, Mikio
Res. Lab., Dainippon Pharm. Co., Ltd., Suita, 564, Japan

AUTHOR(S): CORPORATE SOURCE:

Japan Chemical 4 Pharmaceutical Bulletin (1982), 30(1), SOURCE: 333-5

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE:

English CASREACT 96:181246 OTHER SOURCE(S):

CH2SQ2NH2

Hydrogenation of 3-sulfamoylmethyl-1,2-benzisoxazole (I) gave 30% 2-HOC6H4C(:Z)CH2SO2NH2 (II; Z = O)(III) and 39% II (Z = NH). Treatment

III with acid gave 98% benzoxathiinone dioxide (IV). II ($Z \simeq NOH$) was recyclized to give 1,2-benzisoxazole derivs. by treatment with acid or base. On pyrolysis III gave benzoxazole derivs. 73101-64-1P 81534-20-5P IT

/SIGN-General Subsequents
RE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
73101-64-1 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX

NAME

● Na

81534-20-5 CAPLUS

1,2-Benzisoxazole-3-methanesulfonic acid, ammonium salt (9CI) (CA INDEX

L5 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:453966 CAPLUS
DOCUMENT NUMBER: 93:53966 CAPLUS
1TITLE: 93:53966 CAPLUS
3-[Sulfamoyimethyl]-1,2-benzisoxazole as an anticonvulsant
UNO, JUN, KUROKava, Mikio: Masuda, Yoshinobu
Dainippon Pharmaceutical Co., Ltd., Japan
JUN, KOKAI TOKKYO KOHO, 5 pp.
CODEN: JKXXAF
LANGUAGE: PATENT INFORMATION:
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54163823	A2	19791226	JP 1978-71377	19780612
JP 61059288	B4	19861216		
PRIORITY APPLN. INFO.:			JP 1978-71377 A	19780612

GI

CH2SO2NH2 1

AB Anticonvulsants contained 3-(sulfamoylmethyl)-1,2-benzisoxazole (I) {68291-97-4} or its alkali salts as major components. Thus, a tablet composition contained I 100, lactose 35, starch 17, crystalline cellulose 40, poly(vinylpyrrolidone) 6, silicic anhydride 1, and Mg stearate 1 g, which showed ED50 of 11.9 mg/kg against maximum elec. shock in rats, vs. 18.0 mg/kg

showed EDSO of 11.9 mg/kg against maximum elec. shown in lece, vo. 10.5 mg/kg

for diphenylhydantoin (II) and carbamazepine (III). The LD50 for I, II, and III Were 1829, 363, and 1700 mg/kg p.o. resp.

IT 73101-64-1P

RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)

(preparation and reaction of, with phosphoryl chloride)

RN 73101-64-1 CAPLUS

CN 1.2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX NAME)

L5 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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L5 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L5 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1980:408158 CAPLUS DOCUMENT NUMBER: 93:8158 Heterography Heterocyclic methanesulfonamide derivatives with

neterocyclic mechanisationamide derivative anticonvulsive action Dainippon Pharmaceutical Co., Ltd., Japan Fr. Demande, 23 pp. CODEN: FRXXBL Patent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	DATE APPLICATION NO.					

FR 2428033	Al	19800104	FR 1978-17345	19780609				
FR 2428033	B1	19801121						
PRIORITY APPLN. INFO.:			FR 1978-17345 A	19780609				

GI

ΙŤ

2-Benzoxazolemethanesulfonamides and benzisoxazole isomers I and II [R = H, halo; R1 and R2 (same or different) are H or alkyl), which were

ared from the bromoethyl analogs, showed anticonvulsant and antispasmodic activity. 3-(Bromomethyl)benzisoxazole reacted with Na2503, the Na methanesulfonate analog obtained was converted to the acid chloride, and the product was treated with NH3 to give II (R = R1 = R2 = H). 73101-64-19

73101-64-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
[preparation and reaction of, with phosphoryl chloride)
73101-64-1 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX

L5 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 1980:128899 CAPLUS
DOCUMENT NUMBER: 92:128899 CAPLUS
SUITES: SUITEMBY SUITEMB

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2825410	A1	19791213	DE 1978-2825410	19780609
DE 2825410	C2	19880825		
PRIORITY APPLN. INFO.:			DE 1978-2825410 A	19780609

GT

$$R \longrightarrow X^1$$

The title compds. I (one of X and X1 = N, the other = CCH2SO2NR1R2; R =

halogen; R1 and R2 = H, C1-3 alkyl) and their alkali metal salts were prepared for use as antiepileptics (test data tabulated). Thus, 3-(bromomethyl)-1,2-benzisoxazole was treated successively with aqueous of Na2503

in meOH and POC13 to give I (R = H, X = N, X1 = CCH2SO2C1), which was treated with NH3 to give I (R = H, X = N, X1 = CCH2SO2NH2). 73101-64-17

/SUNT-04-1P
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

LANGUAGE:

L5 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN 1980:181160 CAPLUS DOCUMENT NUMBER: 92:181160 PST 1711E: Methane-sulfonamide derivative: INVENTOR(S): Uno, Hitoshi; Kurokawa, Mikio: 92:181160
Methane-sulfonamide derivatives
Uno, Hitoshi; Kurokawa, Mikio; Masuda, Yoshinobu
Dainippon Pharmaceutical Co., Ltd., Japan
U.S., 7 pp.
CODEN: USXXAM PATENT ASSIGNEE (S):

SOURCE: DOCUMENT TYPE: Patent English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 4172896 PRIORITY APPLN. INFO.: US 1978-912857 US 1978-912857 19780605 A 19780605 А 19791030

GI

Benzisoxazole- and benzoxazolemethanesulfonamides I and II (R = H, halo; R1, R2 (same or different) = H, C1-3 alkyl], useful as anticonvulsants, were prepared Thus, stirring 3-{bromomethyl}-1,2-benzisoxazole in MeOH AB

aqueous NaSO3 at 50° 4 h gave Na 1,2-benzisoxazole-3-methanesulfonate, which was converted to the acid chloride with POC13 and treated with NH3 to give I (R = H). I and II had activity similar to that of diphenylhydantoin but with about twice the safety index. 73101-64-1P

73101-64-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and acid chloride formation from)
73101-64-1 CAPLUS
1,2-Benzisoxazole-3-methanesulfonic acid, sodium salt (9CI) (CA INDEX

● Na

=> s 15 and acetic anhydride
218250 ACETIC
22 ACETICS
218259 ACETIC
(ACETIC OR ACETICS)
200365 ANHYDRIDE
31835 ANHYDRIDES
210598 ANHYDRIDE
(ANHYDRIDE OR ANHYDRIDES)
21787 ACETIC ANHYDRIDE
(ACETIC (W) ANHYDRIDE)
L6 2 L5 AND ACETIC ANHYDRIDE

=> d 16 1-2

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L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:590879 CAPLUS
D 139:154994
T1 Novel sulfonation method for zonisamide intermediate in zonisamide synthesis and their novel crystal forms
IN Nidam, Tamar: Mendelovici, Marioars: Schwartz, Edward: Wizel, Shlomit Rough Ro
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=> log y COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 76.04 242.81 FULL ESTIMATED COST

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